

Arcadis Varic

SP

Installation and Startup System

LITHOSTAR Modularis Vario Adaptation

© Siemens AG 2004

The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

1

Installation of the LITHO Modularis Vario adaptation

4

Work steps to be performed

4

Scope of the instructions

4

Safety notes

4

Required tools, measuring equipment and aids

4

Opening the housing

4

Installing the connector panel and relay

5

Wiring

5

Functional check

6

Final work steps

7

2

Changes to previous version

8

4 Installation of the LITHO Modularis Vario adaptation

Work steps to be performed

Scope of the instructions

These instructions apply to the installation of the LITHOSTAR Modularis Vario adaptation.

Safety notes

NOTE

When performing work steps, observe the product-specific safety information in the documents as well as the general safety information contained in ARTD part 2.

WARNING



Tests and adjustments performed with the radiation on are identified by the radiation warning label.

- ⇒ When performing adjustments labeled as shown here, appropriate radiation protection measures must be taken (see ARTD, part 2).

Required tools, measuring equipment and aids

Tool kit

Protective ground wire resistance meter

e.g., Safety Tester Bender UNIMET 1000ST,
mat. no. 51 38 727

Opening the housing

- Disconnect the system from the power supply, and pull out the power plug.
- After removing the paneling screws, remove the cover of the basic unit.

Installing the connector panel and relay

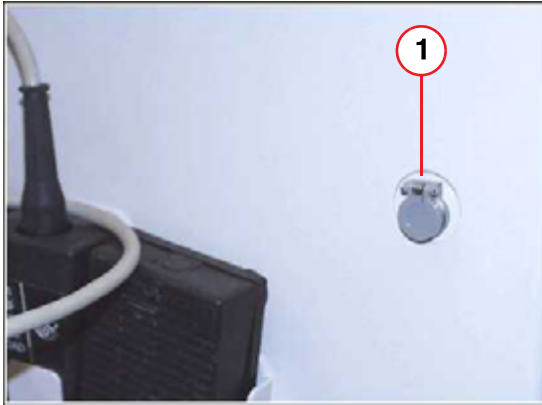


Fig. 1: *Modularis Vario connection*

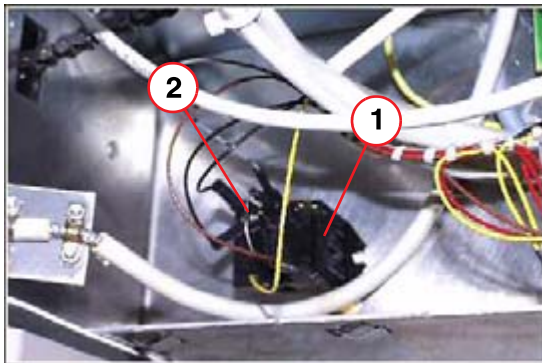


Fig. 2: *Relay and diode*

- Remove the dummy plug from the opening.
- Push the connector panel from the inside onto the threaded bolts (1/Fig. 1 / p. 5) and use 3 mm locking washers and nuts to secure it.
- Place the relay on the available threaded bolts (1/Fig. 2 / p. 5) and use 3 mm locking washers, shims, and nuts to secure it.

Wiring

- Connect the supplied diode to relay K1 (2/Fig. 2 / p. 5).
 - Connect the cathode (identified by a ring) to connection 6 (yellow cable).
 - Connect the anode to connection 5 (grey cable).

6 Installation of the LITHO Modularis Vario adaptation

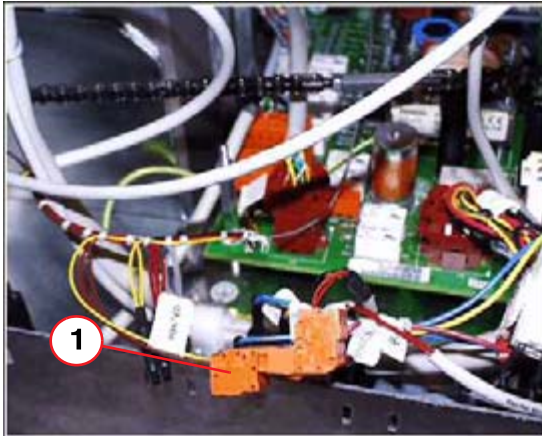


Fig. 3: Switch plug connection

- Unplug the connector D3.X6 from the board D3.
- Reconnect the unplugged connector to the existing plug-in connection D3.X6A at the new cable harness (1/Fig. 3 / p. 6).
- Plug the connector D3.X6 of the new cable harness into the plug-in connection on the D3.X6 board.
- Plug the connector D3.X10 of the new cable harness into the contacts of the D3.X10 board.
- Secure the new cable harness using cable ties. The cables must not be in the way of any mechanically moving parts of the steering mechanism.

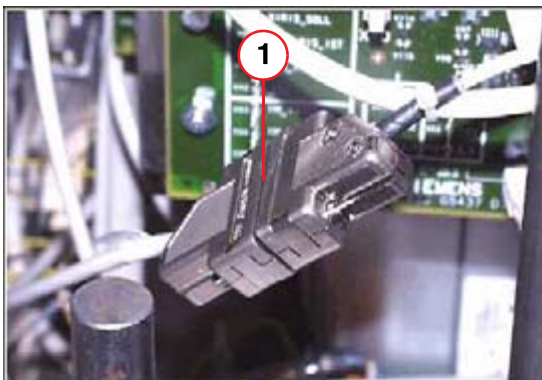


Fig. 4: SUB-D plug connection

- Connect and screw together the two SUB-D plugs (1/Fig. 4 / p. 6).
- Secure the plugs at a suitable location.

Functional check

- Connect the ARCADIS Varic to the monitor cart.
- Plug in the power connector.
- Switch on the system and wait for bootup of the entire system.
- Select fluoroscopy.
- Briefly activate fluoroscopy with the hand switch.
 - ⇒ It must be possible to release radiation with the hand switch.



- Switch off the system.
- Connect the ARCADIS Varic to the LITHOSTAR Modularis Vario.
- Switch on both systems.
- Briefly switch on fluoroscopy with the hand switch.



- ⇒ Radiation release with the hand switch must be disabled.
- Briefly activate fluoroscopy with the LITHOSTAR Modularis Vario control unit.
 - ⇒ Radiation release with the LITHOSTAR Modularis Vario control unit must function.
- Switch off both systems.

Final work steps

- Refit all covers. Make sure the protective ground wires make good contact.
- After all work has been completed and all covers have been closed, perform the protective ground wire test according to ARTD-002.731.17... The protective ground wire resistance must not exceed 0.2 Ohm.
- File these instructions in the system folder of the product.

n.a.

New publication